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(54) **Apparatus and method of operating a heat pump to improve heating supply air temperature**

(57) An apparatus and method for a heat pump operating in the heating mode controls the condenser air flow rate and the condenser exiting air temperature depending in a first embodiment on the evaporator ambient temperature, and in a second embodiment, the evaporator air temperature and alternatively the condenser air flow rate or the condenser exiting air temperature, to alleviate a cold blow condition. The apparatus and method operate by sensing the evaporator ambient temperature with a sensor positioned proximate to the

evaporator, and when that temperature is below a threshold value indicating a cold blow situation, determining by circuit means a modified condenser air flow rate to achieve at the same time a slower air flow and a higher air temperature, so that the cold blow condition is terminated or at least alleviated. The apparatus and method alternatively command the blower to achieve a determined condenser air flow, or to achieve a determined blower speed depending upon motor type, that results in a targeted condenser air flow or a targeted condenser exiting air temperature.

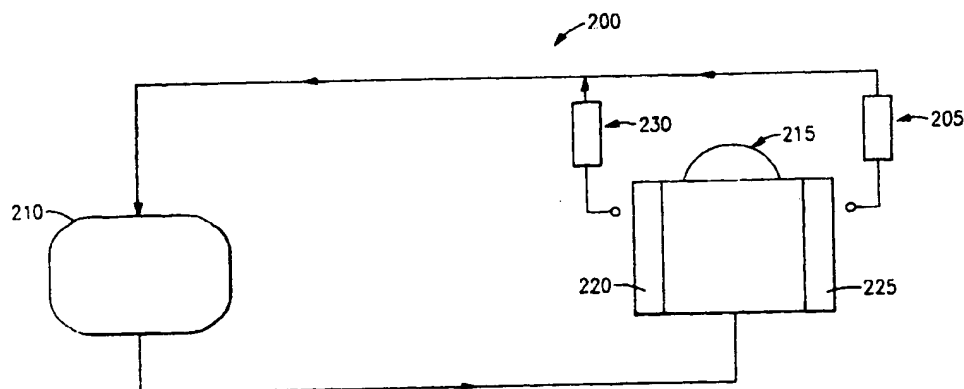


FIG. 2

EP 0 962 715 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 99 63 0044

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
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			F24D
Place of search	Date of completion of the search	Examiner	
MUNICH	8 July 2002	Leclaire, T	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 99 63 0044

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